

09/743617

JOHNSON PCT/PTO 10 JAN 2001

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re : Application of Ko et al.
For : SELF POWERED TIRE REVOLUTION COUNTER
Serial No. :
Filed : Concurrently herewith
Group Art Unit :
Examiner :
Our Docket No. : DN1999138USA

S. Johnson
4/9
4-20-01

January 10, 2001

ASSISTANT COMMISSIONER OF
PATENTS
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Please amend the referenced application as follows:

IN THE CLAIMS

Please amend the claims as follows:

1. (Amended) Piezoelectric-powered tire revolution counter [(400)], including:
a piezoelectric element [(200, 220, 340, 340', 440)] mounted in a pneumatic tire
in a manner to be subjected to periodic mechanical stresses as the tire [(104, 304)] rotates;
power circuitry [(450)] connected to the piezoelectric element and having an
output for supplying a DC voltage [(V_{dd})] to power circuitry of the revolution counter; and
a revolution counting circuit [(460/470/480/490)] connected to the piezoelectric
element;
characterized in that:
the piezoelectric element is in the form of a circular unimorph [(340')].

2. (Amended) Piezoelectric-powered tire revolution counter, according to claim 1,
wherein: